

WHAT IS CLAIMED IS:

- 1 1. A method for moving teeth, comprising:
  - 2 moving a first tooth; and
  - 3 moving a second tooth while isolating the first tooth at a rest position.
- 1 2. The method of claim 1, wherein the second tooth is moved for a first duration and immobilized for a second duration.
- 1 3. The method of claim 1, wherein the duration is on an hourly basis, a daily basis, or a weekly basis.
- 1 4. The method of claim 1, comprising generating a plurality of appliances based on the moving of the tooth, wherein the appliances comprise polymeric shells having cavities and wherein the cavities of successive shells have different geometries shaped to receive and resiliently reposition the teeth from one arrangement to a successive arrangement.
- 1 5. The method of claim 4, wherein a first cavity isolates the first tooth at the rest position.
- 1 6. The method of claim 4, wherein a second cavity urges the second tooth to one of the successive position.
- 1 7. The method of claim 4, wherein a second cavity urges the second tooth to one of the successive position.
- 1 8. The method of claim 4, further comprising replacing an appliance on an intra-day basis.

1 9. The method of claim 4, further comprising replacing an appliance on a daily  
2 basis.

1 10. The method of claim 4, further comprising replacing an appliance on a multi-day  
2 basis.

1 11. The method of claim 4, further comprising replacing an appliance on an intra-  
2 week basis.

1 12. The method of claim 4, further comprising replacing an appliance on a weekly  
2 basis.

1 13. The method of claim 1, further comprising:  
2 moving a first group of teeth; and  
3 moving a second group of teeth while isolating the first group of teeth at a rest position.

1 14. The method of claim 13, wherein each group comprises contiguous teeth.

1 15. The method of claim 13, wherein each group comprises non-contiguous teeth.

1 16. A system, comprising:  
2 means for moving a first tooth; and  
3 means for moving a second tooth while isolating the first tooth at a rest position.

1 17. The system of claim 16, wherein the second tooth is moved for a first duration and  
2 immobilized for a second duration.

1 18. The system of claim 16, wherein the duration is on an hourly basis, a daily basis,  
2 or a weekly basis.

1 19. The system of claim 16, comprising fabrication machine to generate a plurality of  
2 appliances, wherein the appliances comprise polymeric shells having cavities and  
3 wherein the cavities of successive shells have different geometries shaped to receive and  
4 resiliently reposition the teeth from one arrangement to a successive arrangement.

1 20. The system of claim 19, wherein a first cavity isolates the first tooth at the rest  
2 position and wherein a second cavity urges the second tooth to a successive arrangement.

1 21. A system for generating one or more appliances for a patient includes a processor;  
2 a display device coupled to the processor; a data storage device coupled to the processor;  
3 a scanner coupled to the processor for providing data to model the patient's masticatory  
4 system; means for moving a first tooth; means for moving a second tooth while isolating  
5 the first tooth at a rest position; and a dental appliance fabrication machine coupled to the  
6 processor for generating the appliances in accordance with the moved tooth and the  
7 isolated tooth.